

10th Nautical Information Provision Working Group Meeting (NIPWG10)

S-128 Catalogue of Nautical Products

Test Bed update

Agenda Item 10.5A



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S-128 CNP DEVELOPMENT PROGRESS

- S-128 CNP Standard
 - Use exchanging the status of nautical products and providing up-todateness such as paper charts, electronic charts, S-100 based nautical products and etc.
- S-128 CNP Development Progress
 - Proposed by NIPWG 1st meeting in 2015, and approved by HSSC 7th meeting
 - In 2021, S-128 PS 1.0.0 Draft Release
 - In 2022, HSSC 14 approved S-128 Ed 1.0.0 for the testbed
 - Working on an update to the operational version
 - Operation version should be approved by August 2024



- Testing with the KHOA S-100 TestBed
 - Tested S-128 Ed 1.0 with creation and testbed to validate structure and data model
 - Nothing technical issue with the S-128 Ed 1.0 data model
- S-128 Testing Version Ed 1.1.0 Update
 - In align with S-100 Ed 5.0.0
 - Apply S-128 Ed 1.0.0 Comment (Page 6)
 - Define the definition of Attribute "Time Interval of Product"



- Align with the S-100 Ed 5.0.0 update
 - Add new attribute into S-128 FC
 - Change the dataset creation process
 - Change the GML encoding process
 - Add new attribute in Dataset Identification
 - Delete the Dataset Structure Information
- Apply S-128 Ed 1.0.0 Comment
 - Editorial, graphic revision to some paragraphs in PS (6 page)
 - Guidance for categorizing of Product Type attribute (7 page)
 - Value for S-101 ENC and S-10X products



- Editorial revisions
 - PS Clause 6.2 3rd paragraph: "The S-128 domain model consists of two classes: feature type and information type."
 - ⇒ Proposed change: "The S-128 domain model has two base classes. The base class for geographic features is FeatureType and the base class for information types is InformationType."
 - PS Clause 10.6 Unknown attribute values: use an S-128 feature as the example, instead of using the landmark feature which is not applicable in S-128.
 - ⇒ Proposed change



International Hydrographic Organization Propose guidance of Product Type attribute

S-128 Feature Model	Paper Chart	Electronic Chart	Nautical Production
Product / Data	Paper/Raster Chart	S-57, S-101	S-102, S-104, S-111, S-124, S-129
Product Type	Paper nautical chart / raster nautical chart	ENC	S-100 compliant product

This guidance will be reflected in the DCEG



- Propose definition "Time Interval of Product"
 - Compare GI Registry Data Dictionary

Attribute	Data Type	Multiplicity	IHO Definition
Time Interval of Product	Complex	0,1	X
Issue Date	Date	1,1	0
Expiration Date	Date	0,1	0
Time Reference	Enum	1,1	0
Issuance Cycle	Complex	0,1	X
Time Interval of Cycle	Complex	0,1	X
Type of Time Interval Unit	Enum	1,1	О
Value of Time	Integer	1,1	X
Periodic Date Range	Complex	0,1	О
Start Date	Date	1,1	0
End Date	Date	1,1	0



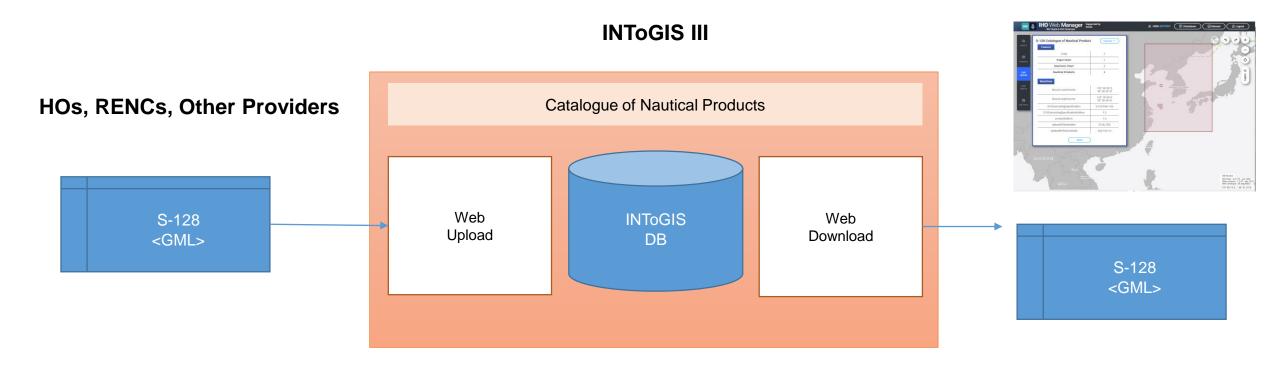
International Hydrographic Organization Propose definition "Time Interval of Product"

Attribute	Data Type	Definition
Time Interval of Product	Complex	The temporal interval over which the product is issued
Issue Date	Date	Creation date of nautical product data
Expiration Date	Date	Expiration date of nautical product data
Time Reference	Enum	Information about time reference
Issuance Cycle	Complex	The cycle of issuing the nautical product data
Time Interval of Cycle	Complex	The temporal interval over which the cyle of issuing the nautical product data
Type of Time Interval Unit	Enum	Type of Time Interval Unit
Value of Time	Integer	Actual time for time interval units
Periodic Date Range	Complex	The active period of a recurring event or occurrence.
Date Start	Date	The earliest date on which an object (for example a buoy) will be present.
Date End	Date	The latest date on which an object (for example a buoy) will be present.



REPORT S-128 DATASET PRODUCTION SUPPORT

- Support for creating S-128 dataset
 - WENDWG S-100 Principle determines the use of INToGIS to support information on the development and production status of S-1XX Products
 - Expand INToGIS for S-100 based products
 - Collect S-128 dataset from different HOs and regenerate new S-128 dataset





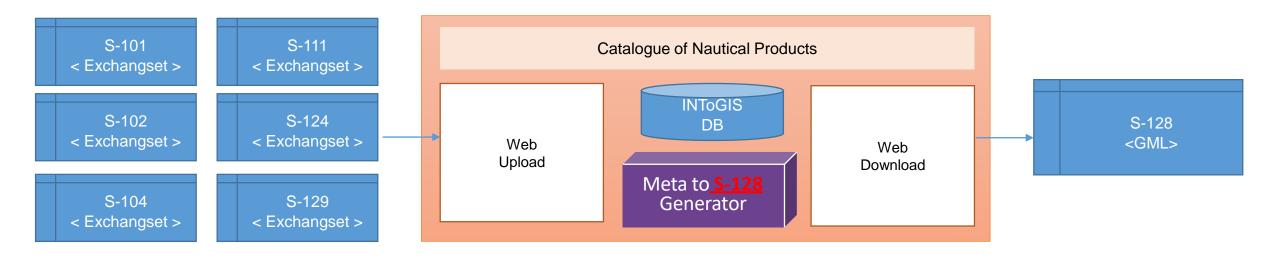
REPORT S-128 DATASET PRODUCTION SUPPORT

International Hydrographic Organization

- Support for creating S-128 1.0.0. dataset
 - Add ability to generate S-128 dataset from member state's S-10X metadata for comment on S-128 updates
 - Test Site: http://119.195.114.103/s128Beta
 - Test Account(ID/PW): T-S128 / test128

HOs, RENCs, Other Providers

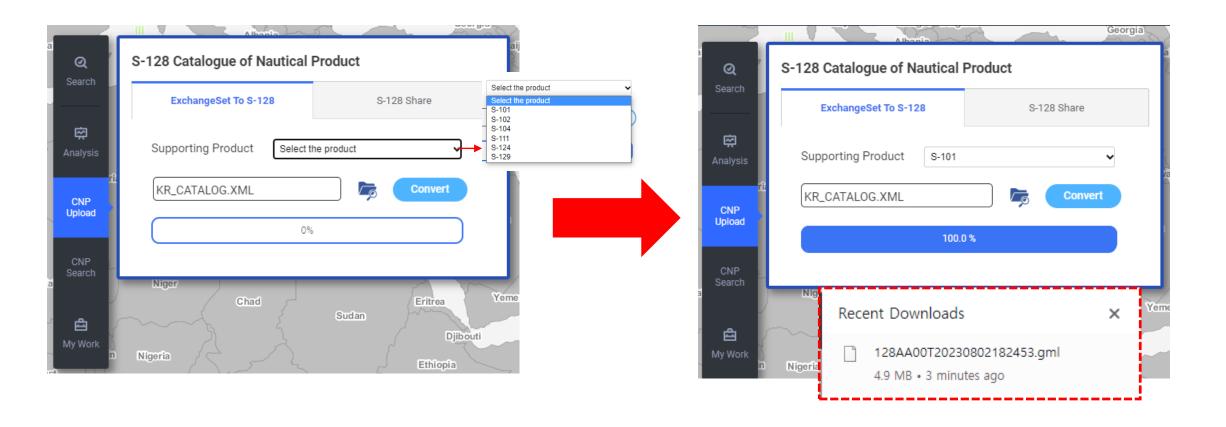
INToGIS III



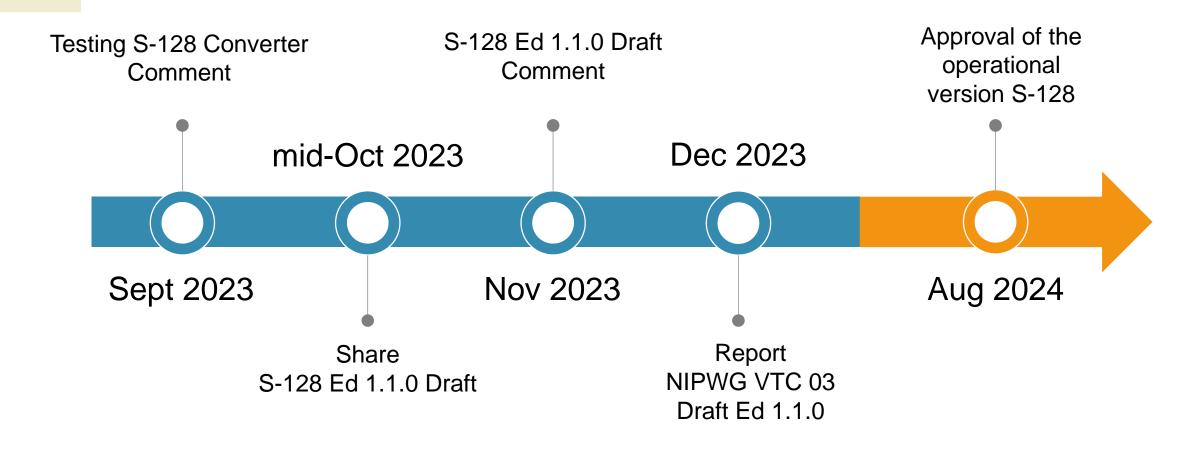


REPORT S-128 DATASET PRODUCTION SUPPORT

- Support for creating S-128 dataset
 - S-10x metadata converted to an S-128 dataset file



FUTURE PLANS





International Hydrographic Organization

Thank you